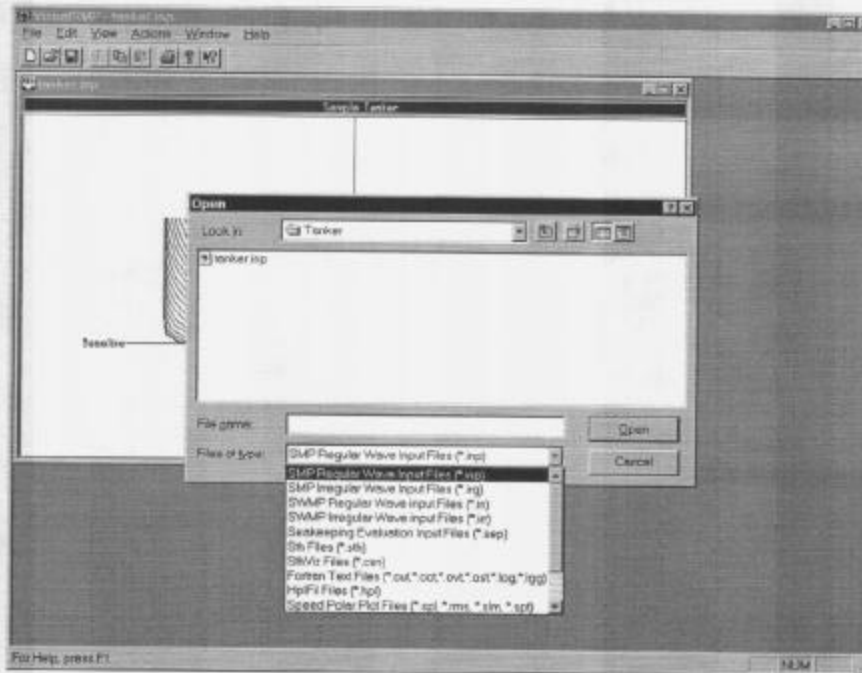# 4 VisualSMP User Interface and Data Entry

VisualSMP data entry functions (pre-processor), analyses runs, and results output (post-processor) are all controlled through a common Windows Graphical User Interface.
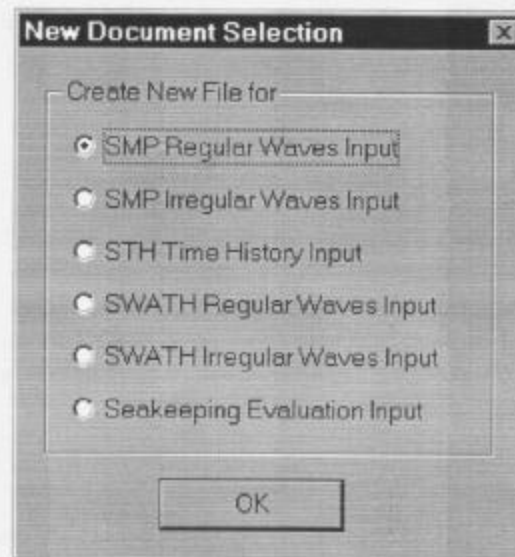

The File - Open menu allows the user to open the following existing file types. Each file type has an associated menu structure and window type; the menu is specific to the actions that can be performed on that file type. Each file type also has a window associated with it; some windows are graphical, some are forms based, and some are text based.

The table below contains a description of the files that VisualSMP understands and identifies the file extentions associated with these files.

File Types	File Extension
Monohull Regular Wave Input	*.inp
Monohull Irregular Wave Input	*.irg
SWATH Regular Wave Input	*.in
SWATH Irregular Wave Input	*.irr
Seakeeping Evaluation Input	*.sep
Standard Time History Input	*.sth
Standard Time History Cosine Files	*.csn
Vsmp Text Output Files	*.out, *.oot, *.ovt, *.ost, *.log *.lgg
Monohull Splined Section File	*.hpl
Monohull RAO file	*.rao
Speed Polar Plot files	*.spl, *.slm, *.rms
SEP Limiting Significant Wave Heights	*.plt
SEP Percent Time Operability	*.map

NOTE: Not all file types will be available, as SWATH, STH and SEP modules are licensed separately.

New Document Selection

Create New File for

- ⊙ SMP Regular Waves Input
- ○ SMP Irregular Waves Input
- ○ STH Time History Input
- ○ SWATH Regular Waves Input
- ○ SWATH Irregular Waves Input
- ○ Seakeeping Evaluation Input

OK

The File - New menu allows the user to create new empty input files for the input files described in Table 1 above. The file types a user is able to create is controlled by the hardware lock, if the user selects a file type not supported by the hardware lock a warning dialog will be displayed and no action will be taken.

Data input for all input file types is through a series of dialog forms which are accessed through the Edit menu.

Graphical output is controlled by toolbars or drops down lists in the display window.

Input, output and program control details are described below in the appropriate sections of this manual.

Module	4.1.1.1.1.1.1.1 Section
Monohull Regular Waves	4
Monohull Irregular Waves	5
SWATH Regular Waves	6
SWATH Irregular Waves	7
Seakeeping Evaluation	8
Time History	9
Visualization	10